SERGETEV, N.P.; HYABOV, V.M., inshener, retsenment; EVECINISHVA, E.V.
inshener, redaktor; GOLOSIN, S.Ya., inshener, redaktor;
MATVETEVA, Ye.H., tekhnicheskiy redaktor

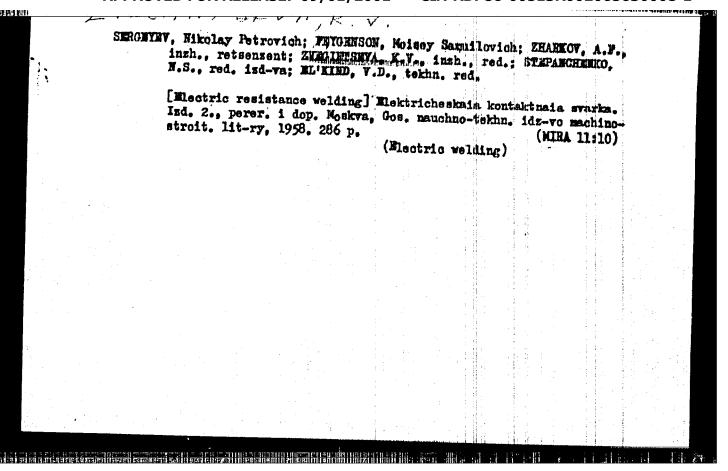
[Resistance welding; a welder's manual] Kontaktunia svarka;
pamiatka dlia svarshchika. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroitel'noi lit-ry, 1955. 91 p. (MLRA 8:10)

(Electric welding)

BRODSKIT, A. Ya.; ZVRGINTSHVA, K. V., inzhener, redaktor; GRUSHEVSHAYA, G.M., redaktor; FOFOVI, S.W.; Texhmicheskiy redaktor

[Argon-arc welding using tungeten electrodes] Argono-dugovaia svarka vol'framovym elektrodom. Moskva, Gos.nandhno-tekhn. izd-vo mashinostroit. lit-ry. 1956. 395 p. (MIRA 9:3)

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CHERNISHEVA, Yelena Vesil'yevne,; VOSHCHANOV, K.P., insh., retsensent,;

TSEQUE/SKIT, V.L.: insh., retsensent,; ZVEGIM SETAK.V., insh., red.;

STEPANGHERO, M.S., red. izd-vo,; Elektrid v.D., tekhn. red.

[Current sources for the electric welding are] istochniki pitanila svarochnoi dugi. Moskva, Gos. nauchno-tekhn. isd-vo mashinoskroit, lit-ry, 1958. 112 p.

(MIRA 11:10)

(Blectric welding)

LAPIDUS, Vladimir Arkad'yevich; IRYUKOVSKIY, N.N., inshener, retsensent;

ZVROJNYSMA, K.M., inshener, redaktor; GRUSHMVSKAYA, G.M.,
izdatel'skiy redaktor; MODEL', B.I., tekhnicheskiy redaktor

[Electrodes for buthle-up welding] Elektrody dlia naplavki.

Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit, litery,

1957. 231 p. (MLRA 10:6)

(Electrodes)

YELISTRATOV, Petr Savel'yevich; IVANOV, B.G., kand.tekhn.nsuk, retsensent;

-ZVEGINTSEVA_K_V_, inshener, red.; MEZHOVA, V.A., red.isdetel'stva;

TIKHANOV, A.Ya., tekhn.red.

[Metallurgical principles of iron welding] Metallurgicheskie
osnovy svarki chuguna. Moskva, Gos.nsuchno-tekhn.isd-vo mashinostroit.lit-ry, 1957. 154 p.

(Welding)

(Welding)

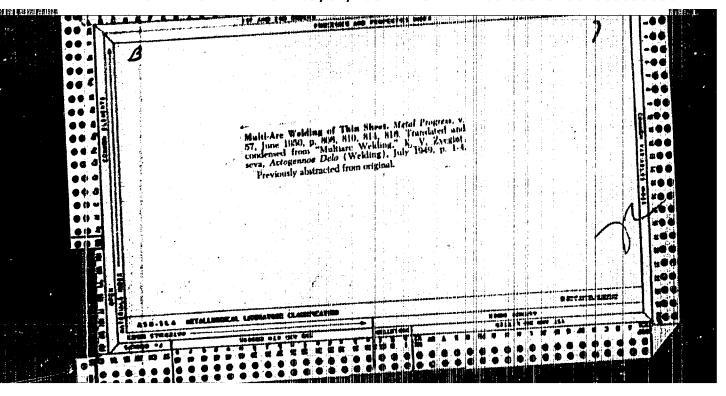
LYUBAYSKIY, K.V., prof., doktor tekhn.nauk, otvetstvennyy red.; ZYBOINTSEYA.
K.V., insh., red.; KATLER, S., kand.tekhn.nauk, red.; TYUL'KOV, M.D.,
kand.tekhn.nauk, red.; FETROY, A.V., kand.tekhn.nauk, red.

[Cas-shielded are welding; papers at the All-Union Scientific
Gonference on Gas-Shielded Welding] Voprosy dugovoi svarki v
zeshchitnykh gazakh; doklady k Vascoiuznomu nachno-tekhnicheskomu
soveshchaniiu po svarke v zeshchitnykh gazakh. Moskva. 1957. 250 p.

(NIRA 11:5)

1. Mauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Saktsiya svarki metallov.

(Blectric welding) (Protective atmospheres)



VIADIMIRSKIY, T.A.; FAL'KHVICH, A.S.; ZVRGIMTSHVA, K.V., inshener, retsensent;

SHTERLING, S.Z., dotsent, redektor; MCDEL', B.L., tekhnicheskie redaktor; BUTYLKIN, A.G., tekhnicheskiy redaktor

[Equipment and experience in welding under gas pressure] Oborudovanie i opyt primeneniia gasopressovoi svarki. Moskva, Gos. nauchno-tekhn. izd-ve mashinostroit. lit-ry, 1952. 114 p. [Microfilm] (MIRA 9:12)

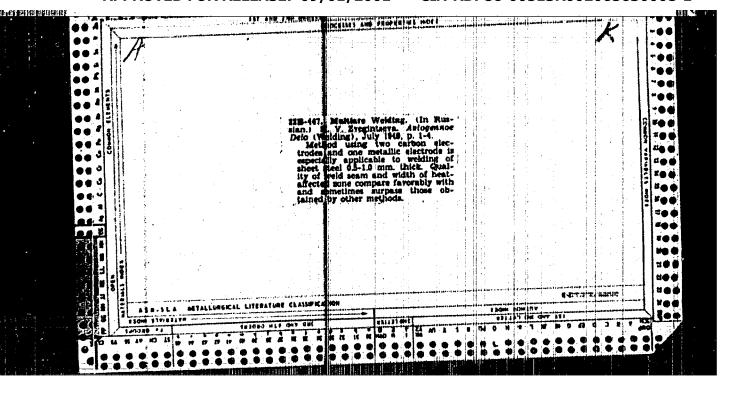
(Gas welding and cutting)

DUL'KIN, V.Ya.; ULESOV, A.A.; ZVFOINTSEVALE, V., nauchnyy redaktor;

ERTOER, Yu.V., redaktor industria; GUSEVA, S.S., tekhnicheskiy redaktor

[Submerged-melt welding of concrete reinforcements] Vannaia svarkn armatury zhelezobetona, Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 50 p.

(Welding) (Reinforced concrete)



KILIMOV, A.P.; ZVEGINTSEVA, L.N. Formation of hydrogen bonds between the angular analogs of acridine and proton donors. Izv. SO AN SSSR no.11 Ser.khim.nauk no.3:129-131 163. (MIRA 17:3) 1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

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	ABS, JOUR.	RZKhim., No.5 1960, No.
	AUTHCR	Zvejska, M., Sykora, M., and Ryaka, A.
	TITLE	Not given Study on the Treatment of Sewage in a Socialist
	1.	City Control of the C
	ORIG. PUB.	Wodni Hospod, No 7, 293-297 (1959)
	ABSTRACT	the authors have studied the operation of the biochemical sewage treatment plant (trickling fil-
		ters, methane tank) in Ostrava-Stating a state of ters, methane tank) in Ostrava-Stating a server . Data are given
		on the fluctuation in the discharge, bhomitotal oxygen demand,
		pil, alkalinity, total N. Cl. J. and bartypical day.
		The operation of the treatment plant is described. M. Lapshin
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ZVEJSKA, M., SYKORA, M., RSYKA, A.

Investigation and treatment of sewage from socialist residential areas; p. 273.

VODNI HOSPODARSTVI. Czechoslovakia, No. 7, July 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, Sep 1959 Uncl.

MOCHALIN, Mikhail Fanteleymonovich; ZVEKOV, Vladimir Afanat revich;
ACOSHKOV, M.I., nauchnyy red.; ASTAKHOV, A.V., red. 1zd-va;
BOLDYREVA, Z.A., tekhn. red.

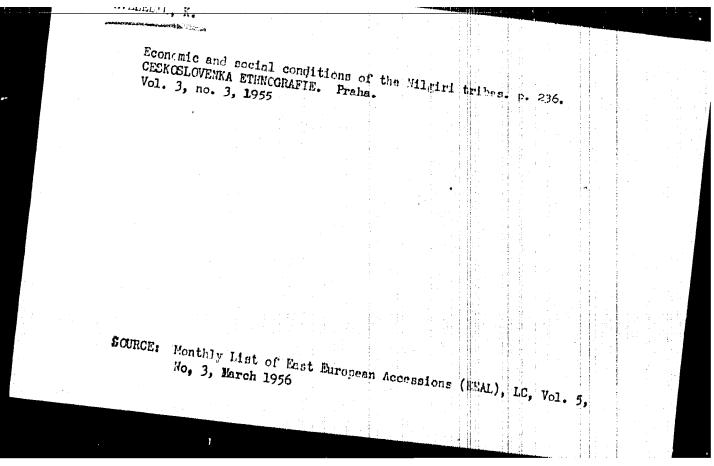
[Self-propelled equipment in mines] Samokhodnes oborudovanie na rudnikakh. Pod nauchn. red. M.I.Agoshkova. Moskva, Gos.nauchnotekhn.izd-vo lit-ry po gornomu delu, 1961. 391 p. (MIRA 14:12)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

(Mining machinery)

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GONCHABUK, M. [reviewer]; EVELIDOVSKAYA, S.; SOLOV'YEV, P.; CHISTIAKOV, D.;

"Builders discuss their own work," S. Evelidovskaia, P. Solov'ev, D. Chistiakov, V. Ous'kov. Reviewed by M. Goncharuk. Sov. profesciusy 1 no. 3889-91

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DELYAG IN,	N. H. ; SHPINEL	. V. S.; BRYUKHANOV,	v.A.; Burnglinskiy, B.	
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ENTUKHANOV, V.A.; DELYAGTN, N.N.; ZVENGLINSKIY, B.; SHPINEL', V.S.

Energy shift of gamma-ray transition observed in the resonance absorbtion of Y-quanta in crystals. Zhur. eksp. i teor. fiz. 40 no.2:713-714, F '61. (MIRA 14:7)

1. Institut yaderncy fiziki Moskovskogo gosudarstvennogo universiteta. (Gamma rays)

81,972

8/056/\$0/059/003/058/058/XX B006/B070

24.6210 AUTHORS:

Delyagin, N. N., Shpinel', V. S., Bryukhangv, V. A.,

Zvenglinskiy,

TITLE:

Nuclear Zeeman Effect Vin Sn119 Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

PERIODICAL:

Vol. 39, No. 3(9), pp. 894 - 895

TEXT: The present "Letter to the Editor" is the continuation of a previous paper (Ref.4) in which the authors reported on measurements of the dependence of resonance absorption of 25.8-kev gamma quanta emitted in the Sn decay on the velocity of the source relative to the absorber-The authors have again carried out analogous measurements, but this time the absorber was placed in an external constant magnetic field. In this case, a Zeeman splitting of the absorption line took place, and a hyperfine splitting was observed in the spectrum, from which the magnetic moment of the excited 23.8 kev level of 8n119 could be determined. The

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Nuclear Zeeman Effect in Sn 119

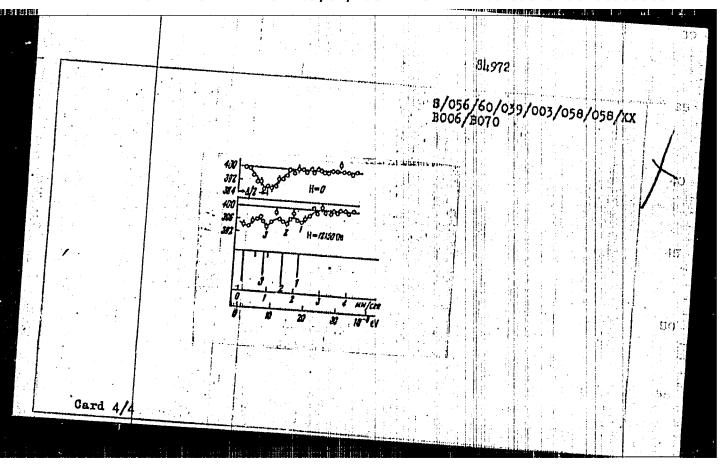
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gamma source was a foil of white metallic tin (94% of Sn 118) exposed to thermal neutron irradiation in a reactor. The absorber was SnNb, in which no quadrupole splitting of the 23.8 kev level takes place according to Ref. 4. Thus, the observed hyperfine splitting of the absorption line is only a consequence of the Zeeman effect. For the measurements, the source and the absorber were cooled to nitrogen temperature. The absorber (20 mg/cm2 SnNb3) was placed between the pole pieces of a magnet producing a constant magnetic field of 12,150 oe in the absorber, and the measurements were made with and without a magnetic field. The ground level is split in two and the excited one (3/2) in four sublevels under the action of the field. 6 M1 transitions are possible between these. By changing the velocity of the source (positive a 1 negative velocity) 12 lines must be observable. The shape of the absorption spectrum is dependent on the magnetic moments $|\mu_0|$ and $|\mu|$ of the ground and excited states of the Sn 119 nucleus; on the relative signs of these moments; and on the quadrupole splitting A of the excited state. The results of the measurements are represented in a diagram

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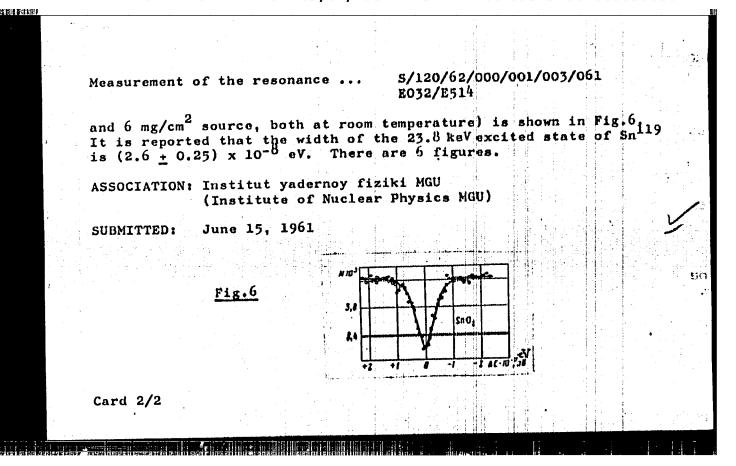
Bryukhanov, V.A., Delyagin, N.N., Zvenglinskiy, AUTHORS:

Sorgeyev, S.A. and Shpinel!, V.S.

Measurement of the resonance absorption spectra of TITLE: gamma-rays in crystals

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 23-28

In a previous paper (Ref.5: Zh.eksperim. i teor.fiz., 1960, 39, 220; Ibid 40, 713) the authors described an apparatus which was used to investigate the Mössbauer effect (23.8 kV gamma-rays on Sn119 nuclei in crystals). In this apparatus the relative velocity of the source and the absorber is varied linearly with time with the aid of a mechanical device and the intensity of the gamma-rays corresponding to different values of this velocity is recorded with a multi-channel kicksorter and an amplitude modulator working in synchronism with the device producing the above velocity variation. In the present note the authors give a more detailed description of the apparatus, including both the mechanical and the electronic parts of it. typical absorption spectrum for a SnO2 crystal (9 mg/cm2 target Card 1/2



ERYUKHANOV, V.A.; DELYAGIN, N.N.; ZVENGLINSKIY, B.; SENGEYEV, S.A.; SHPINEL', V.S.

Measuring spectra of gamma-ray quanta resonance absorption in orystals. Prib.i tekh.eksp. 7 no.1:23-28 Ja-F '62. (MIRA 15:3)

1. Institut yadernay fiziki Moskovskogo gosudarstvennogo universiteta. (Gamma-ray spectrometry)

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AUTHORS:

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Delyagin, N. N., Shpinel', V. S., Bryukhanov, V. A.,

Zvenglinskiy, B.

The Hyperfine Structure of y-Rays, Produced by Quadrupole TITLE:

Interaction in the Crystal Lattice

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 1(7), pp. 220-222

TEXT: In the introduction to this article the authors describe several publications dealing with the above-mentioned subject. A. I. Alikhanov and V. A. Lyubimov (Ref. 5) studied the resonance absorption of 23.8-kev gamma quanta of Sn119 nuclei. The authors themselves studied the hyperfine structure of the 23.8-kev lovel of this nucleus. The hyperfine structure is due to the interaction between the quadrupole moment of the nucleus in the excited state and the internal electric field of the tin crystal. Metallic Sn119m served as source, which moved relative to the absorber. Contrary to similar experiments, the source used here

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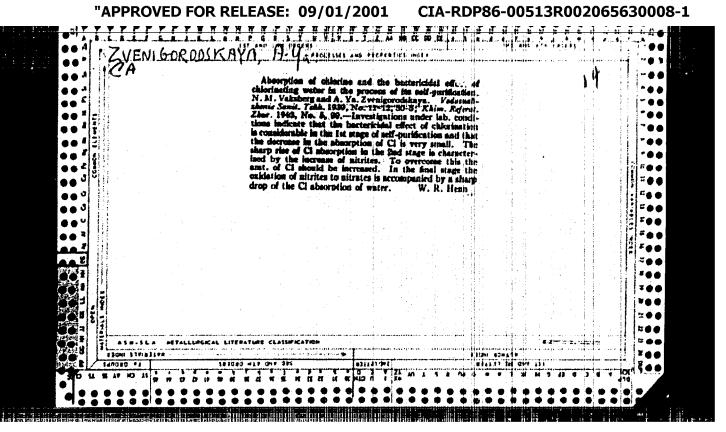
The Hyperfine Structure of \gamma-Rays, Produced by Quadrupole Interaction in the Crystal Lattice

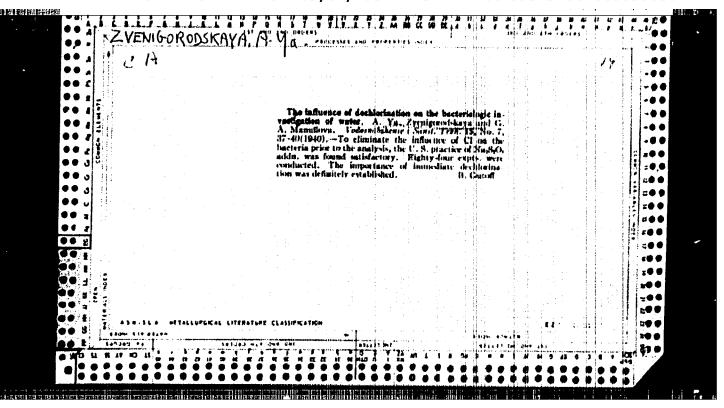
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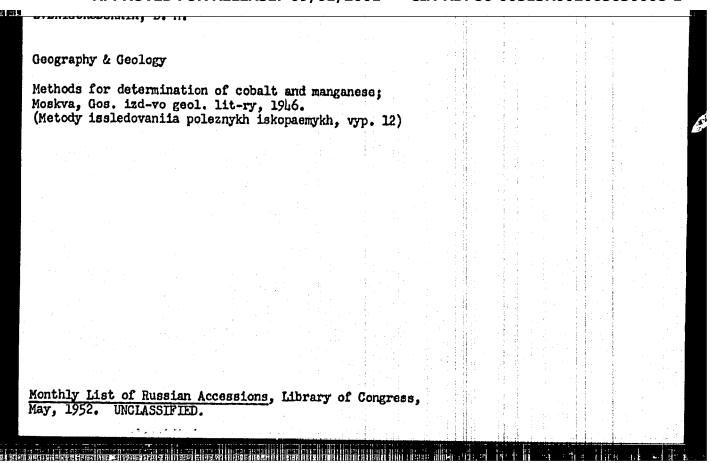
underwent linear acceleration within certain limits. Measurements were carried out at the temperatures of liquid nitrogen. The X-radiation of tin (26 kev) was almost completely absorbed by a palladium film 0.06 mm thick. The y-quanta passing through this filter were recorded by means of an NaI(Tl) crystal. The pulses coming from the singlechannel pulse-height analyzer were linearly phase-modulated in a radio device, viz. simultaneously with the changes in the source velocity. The modulated pulses were fed into a 100-channel pulse-height analyzer of the type AM -100 (AI-100). Each channel corresponded to a certain velocity of the source. The measurements were made with two absorbers containing Sn119, namely, metallic tin and SnNb3 alloy. The dependence of resonance absorption on the velocity of the source for a tin specimen 20 mg/cm2 thick is shown in the upper part of the Fig. on p. 221. The curve has three peaks at 0 and ±1.46 mm/sec (velocity of the source). This corresponds to a hyperfine structure of the 23.8-kev level, and is explained by the interaction between the quadrupole moment of the nucleus in the excited state (spin 3/2) and the electric field of the crystal.

Card 2/3

481 ES 82612 The Hyperfine Structure of γ -Rays, Produced 8/056/60/039/001/028/029 by Quadrupole Interaction in the Crystal Lattice B006/B063 This interpretation is confirmed by measurements with the SnNb3 absorber (30 mg/cm2), which are illustrated in the lower part of the Fig. The spacing Δ of the components of the hyperfine structure was $\Delta = (eQ/2)\partial^2 V/\partial z^2 = (1.15\pm0.25)\cdot10^{-7} eV$. There are 1 figure and 6 references: 2 Soviet, 2 German, and 2 US. ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics of Moscow State University) SUBMITTED: May 25, 1960 Card 3/3







FROLOV, A.G.; KOZLOVSKIY, S.I.; MELAMED, Z.M.; GEACHTROV, J.S.; UVAROV, S.G.; ZVEHIGORODSKAYA, G.V.; KOSTAN YAN, A.Ya., red.1zd-va; SHEVCHENKO, G.N., tekhn. red.; PRUSAKOVA, T.A., tekhn. red.

[Principles for the improvement of industrial complexes on mine surfaces] Osnovy sovershenstvovaniia tekhnologicheskikh kompleksov poverkhnosti shakht. [By] A.G.Frolov i dr. Moskva, Izd-vo AN SSSR, 1963. 135 p. (MIRA 16:12)

1. Moscow. Institut gornogo dela. (Mine buildings)

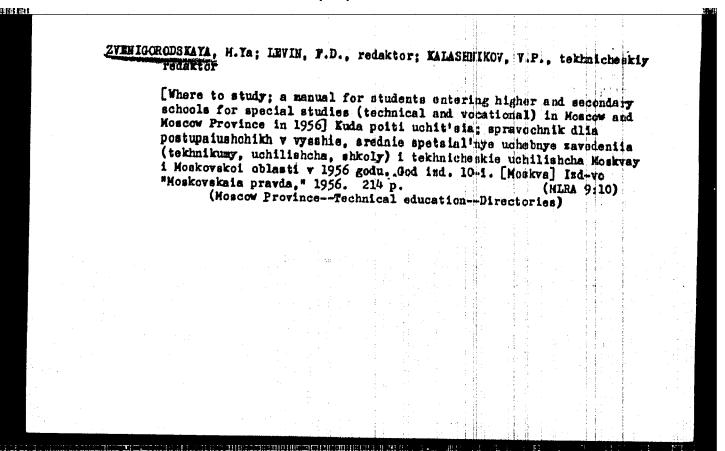
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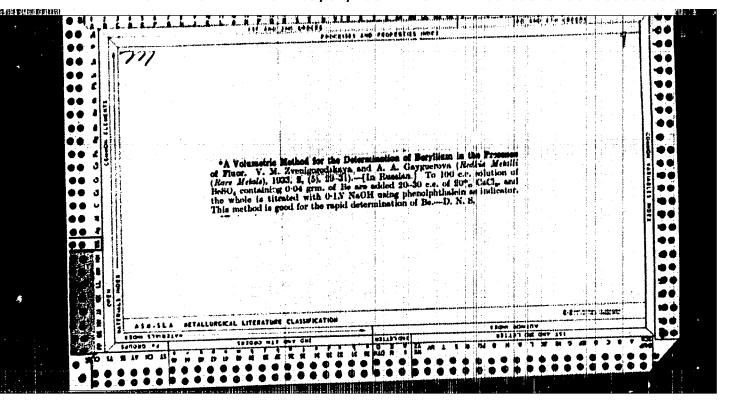
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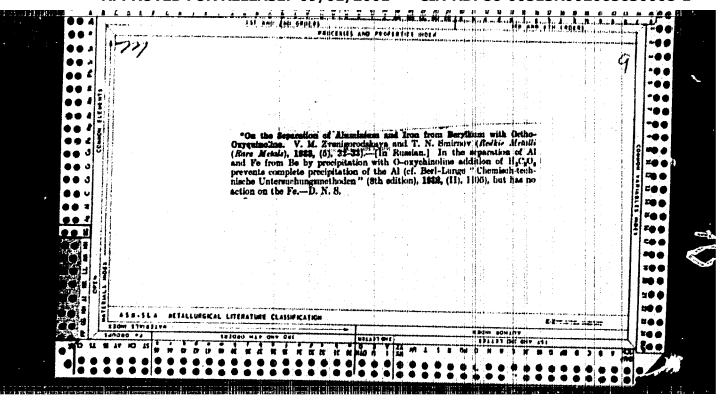
KAYETANOVICH, M.M., red.

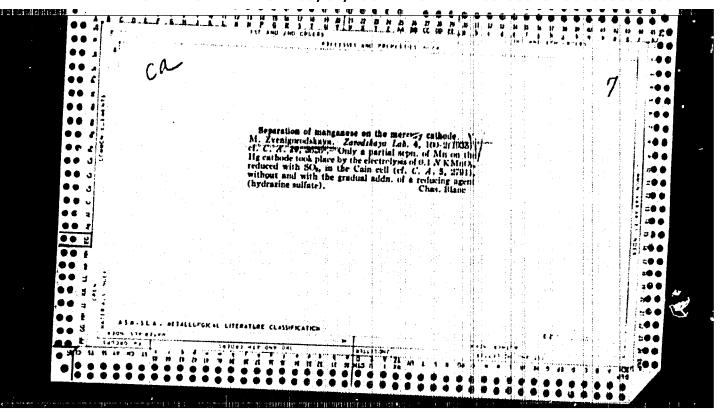
[Steel wires and busbars in electrical networks with ratings up to 1,000 volts] Stal'mye provoda i shiny v elektricheskikh setiakh do 1 000 v. Monkva, Izd-vo "Energiia," 1964. 55 p. (Biblioteka elektromontara, no.125)

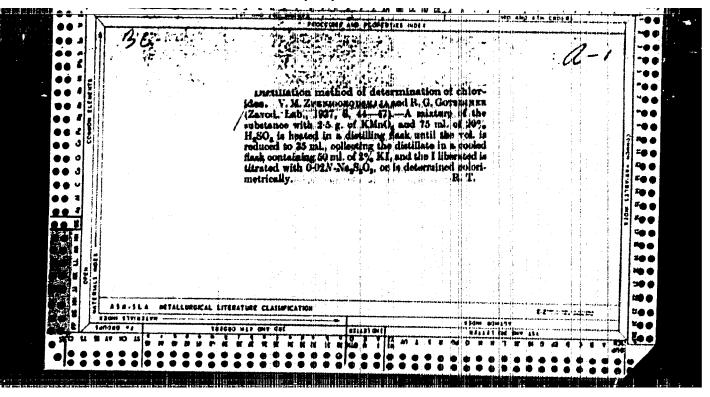
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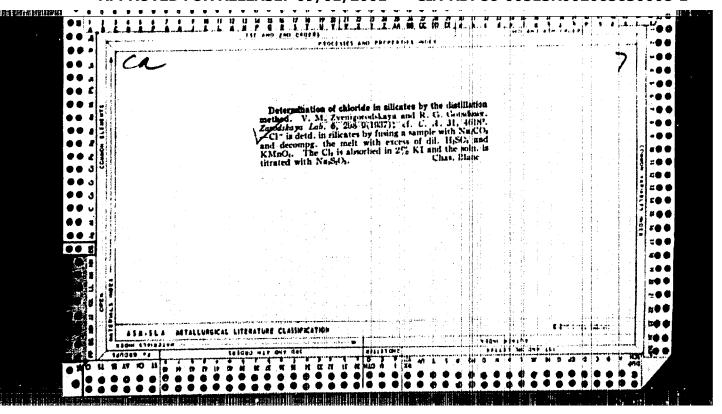




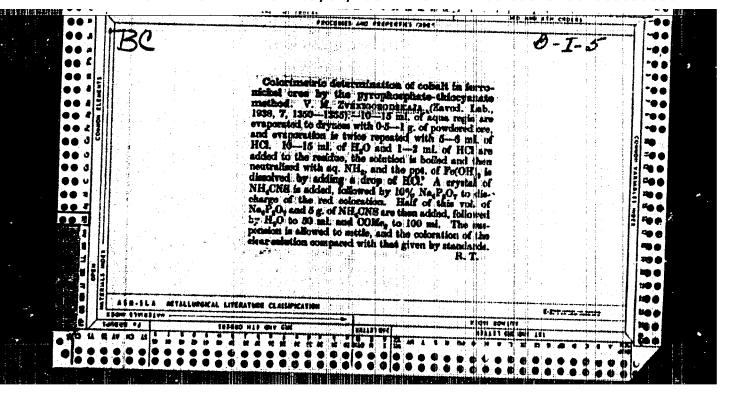


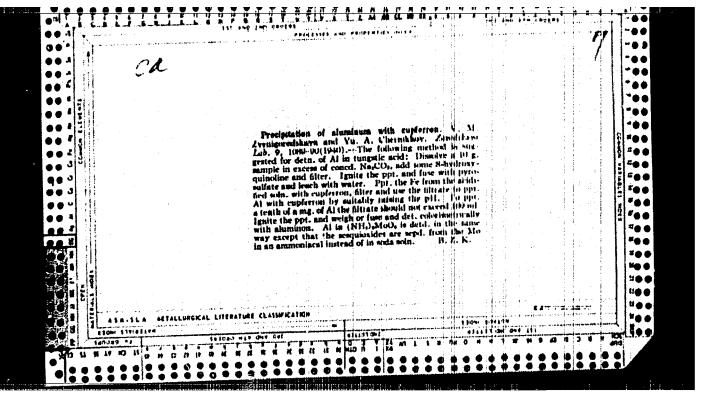


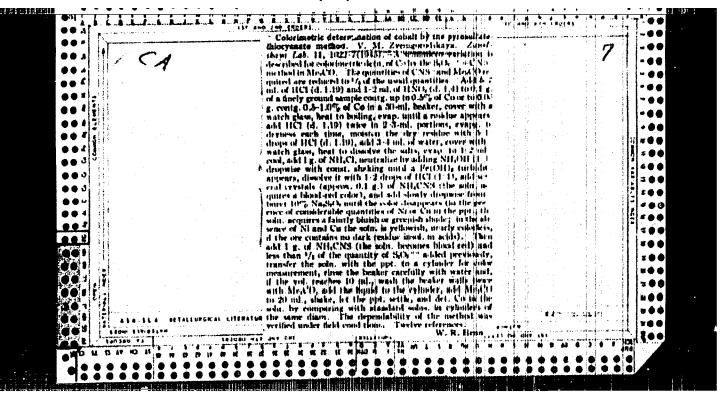


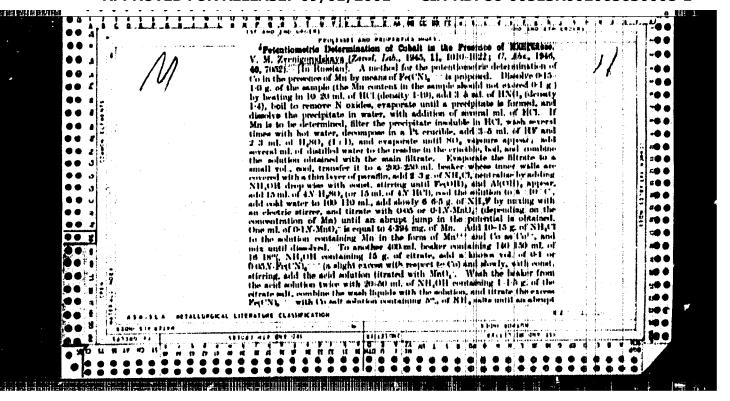


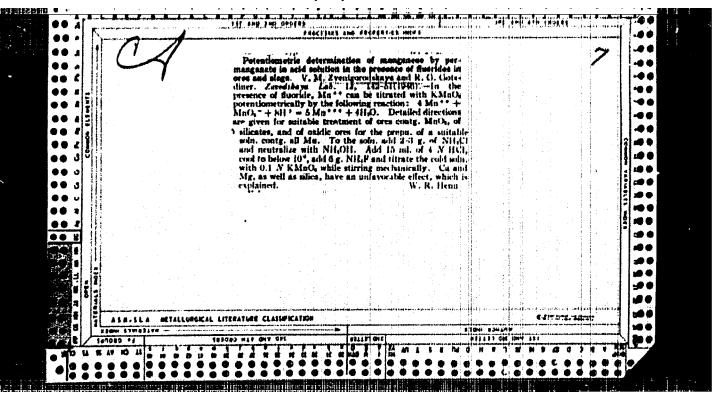
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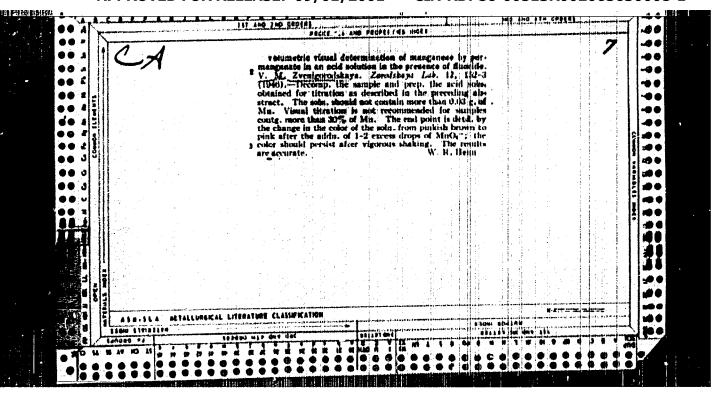


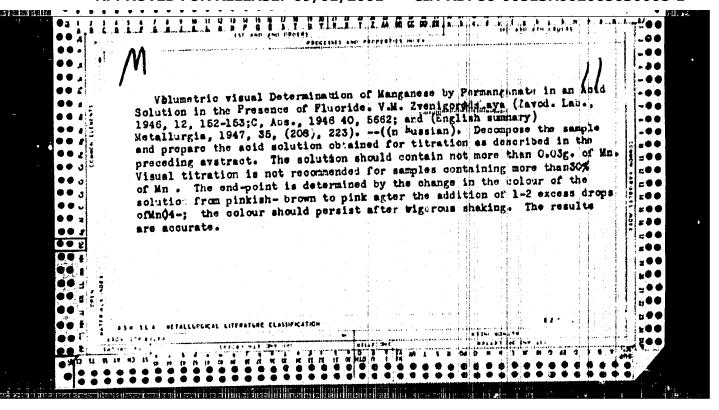




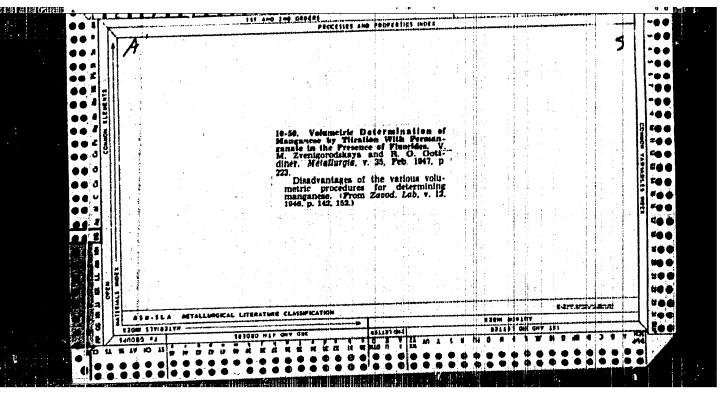








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ZVENIGORODSKAYA, V M.

PHASE I BOOK EXPLOITATION

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U.S.S.R. Ministerstvo geologii i okhrany nedr

Metody opredleniya radioaktivnykh elementov v mineral'nom syr'ye (Methods of Determining Radioactive Elements in Mineral Raw Materials) Moscow, Gosgeoltekhizdat, 1958. 68 p. 3,000 copies printed.

Compilers: Sochevanov, V.G. and Titov, V.I.; Ed.: Krasnova, N.E. Tech. Ed.: Averkiyeva, T.A.

PURPOSE: This book is for those engaged in geochemical prospecting for radioactive ores.

COVERAGE: The chemical determination of radioactive substances in minerals and rock formations is described in this publication. Chemical treatment of materials in preparation for radiometric analysis is also included. The proposed methods are considered to be the most

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Methods of Determining Pagloactive Elements (Cont.) reliable for geochemical recearch. Methods are presented in the form of separate procedure instructions with the inclusion of: principle of the method, elimination of interfering factors, application limits, necessary reagents, procedure of analysis. Specifications for high purity reagents are given whenever necessary. There is a bibliography with 26 references, 17 of which are Soviet, 4 English, 3 German, 1 Czech, and 1 Swiss. TABLE OF CONTENTS: 3 Preface URANIUM Titov, V.I., Volkov, I.I. Colorimetric Determination of Uranium 4 by the Trilon-Phosphate Method Zvenigorodskaya, V.M., Rudina, L.P. Colorimetric Determination of 12 Uranium by Means of the Fluoride Method Card 2/4

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TITLE:	Zvenigorodskaya, V. M., hyanthe Fluoride Method With Titri- Determination of Uranium by the Fluoride Method With Titri-
A	metric Conclusion Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 4, Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 4,
•	analiticheskoy khimii, 1959, 101 41
PERIODICAL:	pp 457 - 462 (USSR)
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	In the presence of hydrofluoric manual to the
ABSTRACT	sulfurid-Edia mhis resotion procesus 4
	redox potentials in the denendance on the poncentra
	redox potentials of the systems redox potentials of the systems UVI/UIV and Fe III/Fe II change in dependence on the concentration of tion of hydrofluoric acid. With an increasing concentration of the system
	hydroliuotia the potential of
	hydrofluoric acid, the potential of the system uVI/UIV increases strongly, while the potential of hydrofluoric
	UVI/UIV increases strongly, while the system relil/Fe ^{II} decreases. With a concentration of hydrofluoric
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	Fe 11/Fe 18 more 1101/UIV. This difference permits
Card 1/4	tial of the system v

Determination of Uranium by the Fluoride Method With Titrimetric Conclusion

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ing reaction:

 $UO_2^{2+} + 2Fe^{2+} + 4H^+ + 16F^- \rightarrow UF_4 + 2[FeF_6]^3 + H_2O$ (2)

This reaction proceeds in a very wide pH-range, beginning with pH 4-5. Based on this reaction, the authors worked out two rapid determination methods for uranium. One of them has been already published (Ref 6), the second is the subject of this paper. The UF₄, which forms during the reaction (2),

is readily soluble in hydrofluoric acid and can therefore not be used for the quantitative determination of uranium (Ref 8). The investigations of the authors showed that of the difluorides or quadrivalent uranium with the alkali metals only the difluoride with sodium is difficultly soluble in a sufficient degree for a quantitative determination of uranium. This compound does not only precipitate almost quantitatively from the acetate-buffered solution, but also from the mineral-acid medium. Table 1 shows results of the precipitation of U(IV) as difluoride with ammonium and with sodium in an acetate-buffered and a mineral-acid solution in the presence of hydro-

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Determination of Uranium by the Fluoride Method With Titrimetric Conclusion

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fluoric acid. For the determination of uranium in mineral raw materials by the fluoride method, the authors use the precipitation of uranium as di-fluoride NaUF, from a sulfuric-acid solution. The precipitate is washed after filtering up to the release of iron, and subsequently titrated with an ammonium-vanadate solution. The authors also investigated the influence exerted by foreign ions on this determination method, and established that the disturbing influence ef iron, vanadium, molybdenum, and titanium can be climinated. The results of the determination of uranium in synthetic mixtures which contained these foreign ions are shown in tables 2 and 3. Table 4 shows a comparison of the results of the determination of uranium by the fluoride method and the hydrosulfite method (according to reference 5). The course of analysis for the determination of 3 to 60% of uranium in the presence of iron, vanadium, molybdenum, and titanium is described in the paper very accurately. All results obtained by this method are too low by 0.3-0.35 mg of uranium. This

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Determination of Uranium by the Fluoride Method With

Titrimetric Conclusion

error explained by the solubility of oipitation and washing of the precipitate. This constant error vanadate solution. The investigation empirical titer of the out between 1948 and 1952. There are 2 figures, 4 tables, and

SUBMITTED: June 9, 1958

Card 4/4

PETROSYAN, Ye.A.; ZVENIGORODSKAYA, V.P.

Studies on the Vi-antigen of the bacteria of the enteric group.
Report No.4: Specific substance in the Vi-antigen in bacteria of

the enteric group. Zhur.mikrobiol.epid.i immun. 31 no.11:142-149
N '60. (MIRA 14:6)

1. Iz Moskovskogo instituta vaktsin i syvorotok imeni Mechnikova.
(INTESTINES_MICROBIOLOGY) (ANTIGENS AND ANTIBODIES)

PETROSYAN, Ye.A.; ZVENIGORODSKAYA, Y.P. Study of the Vi-antigen of bacteria of the enteric group. Report No.3: Chemical structure of the Vi-antigen of bacteria of tae enteric group obtained by means of trichloracetic acid extraction. Thur. mikrobiol. epid i immun. 31 nc.6:81-87 Je '60. (MIRA 13:8) 1. Iz Moskovskogo instituta vaktsin i syvorotok im. Mechnikova. (ESCHERICHIA) (SIAMONELLA TYPHOSA) (ANTIGENS AND ANTIRODIES)

USSR/Microbiology - Microbes Pathagenic for Man and Animals. Bacteria. Bacteria of the Intestinal Group.

Abs Jour

: Ref Zhur Biol., No 22, 1958, 99390

Author

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: Petrosyan, Ye.A., Zvenigorodskaya, V.P.

Title

: Study of the Antigen of Dacteria of the Intestinal. Group. Report 1. Immunochemical Study of Vi-Antigen

of Typhoid Bacteria.

Orig Pub

: Zh. mikrobiol., epidemiol. i immunobiologii, 1957, No 8,

Abstract

: The Vi-antigen was obtained from the strain Vi-1 Datnagar (free from o-antigen?) either by extraction with trichloracetic acid, or by splitting with pandreatin followed by fractionation with acetone under cooling (a culture was grown on a broth medium with aeration). In both cases the antigens were related by the content of total nitrogen and reducing substances; however, in the first

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PATROS	YAN, Ye,A.;	ZYEHI GORDSKAYA V.P.		
	mikrobiol,	n antigen of bacteria of mical study on the Vi-ant .epid. i immun. 28 no.8:9	5-98 Ag 157.	(MIRA 13.2)
	l, Is Mosk	kovskogo instituta baktsi SALMONEHILA TYPHOSA, immu Vi antigen, immunochem.	n i syvorotok imen nology, (Rus))	1 Mechnikova.
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PETROSYAH, Ye.A.; ZVENIGORODSKAYA, V.P.

Study on the Vi-entigen of B. coli end S. ballerup. Zhur, mikrobiol.epid. i immun. 28 no.10:114-119 0 '57. (MIRA 10:12)

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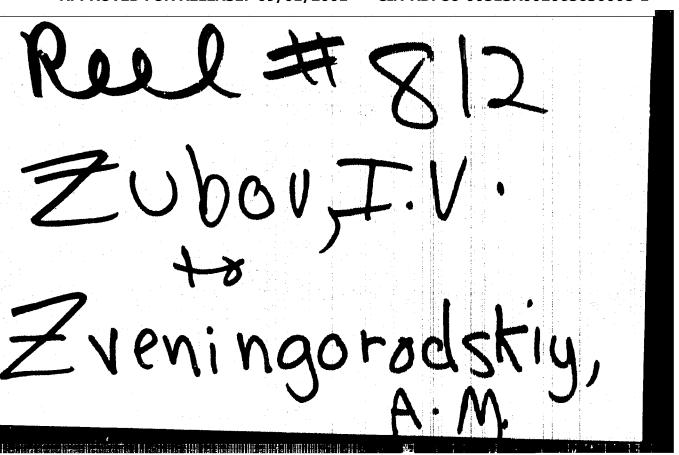
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